

# Material: AMS 5622

## Standard Specification for Steel, Corrosion Resistant, Bars, Wire, forgings, Tubing and Rings 16Cr - 4,0Ni - 0,30Cb - 4,0Cu, Solution Heat Treated

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AMS 5622 Steel, Corrosion Resistant, Bars, Wire, forgings, Tubing, and Rings 16Cr - 4,0Ni - 0,30Cb - 4,0Cu, Solution Heat Treated

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Bar, Wire, Tube and Forging

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	15.000 - 17.500
Nickel	Ni %	3.000 - 5.000
Copper	Cu %	3.000 - 5.000
Cb+Ta	Cb %+Ta %	0.450 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	1310 min.
Yield Strength in Mpa	1172 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HB	388 - 444
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA747 CB7Cu-1	ASME	USA	Casting
17-4PH	SAE	USA	Steel
Z 7 CNU 17-04	AFNOR NF	France	Steel
J92180	UNS	USA	Casting
X 5 CrNiCuNb 16-4	DIN	Germany	Steel
X 5 CrNiCuNb 16-4	EN	European Union	Forging
A747 Grade CB7Cu-1(H900)	ASTM	USA	Casting

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